KI 6103 SERIES

OPTICAL PON POWER METER

OPTICAL COMMUNICATIONS TEST APPLICATION

- In-Line FTTX PON testing

Revision 5

The KI 6103 series Optical PON Power Meter is used for testing FTTX PON fiber optic communications systems.

It simultaneously measures and displays all PON signals—voice, data and video.

FEATURES

- For BPON/EPON/GPON testing
- Pass/Fail/Warning (10 threshold sets) display
- Pass/Fail LED indicators
- Display 1310 nm upstream &
- 1490/1550 nm downstream
- 1310 nm Burst mode testing
- In-line testing
- Internal memory for 100 test data
- Auto shut off
- Backlight
- Large sunlight readable display
- 12 month warranty
- Up to 2 year calibration cycle
- Compact, rugged & light weight
- Low cost

KI 6103 SERIES — OPTICAL PON POWER METER

The KI 6103 pocket size in-line PON Power Meter is ideal for measuring BPON/EPON/GPON FTTX communication link.
Rugged construction, moisture resistance, rubber holster and connector dust caps.
Operational savings come from up to 2 year re-calibration cycle and fast & simple operation.

The meter displays dBm/dB. The resolution is 0.01dB. A separate reference for each λ can be stored.
Pass/Fail/Warning indication can be displayed, and Pass/Fail values are user definable.

SPECIFICATIONS

Parameters	1310nm upstream measurement	1490nm downstream measurement	1550nm downstream measurement
Pass zone	1260 nm ~ 1360 nm	1480 nm ~ 1500 nm	1530 nm ~ 1570 nm
Measurement range	+10 dBm ~ -35 dBm	+10 dBm ~ -50 dBm	+25 dBm ~ -45 dBm
Max power input	+15 dBm	+15 dBm	+25 dBm
Isolation	> 30 dB (@1490/1550 nm)	> 30 dB (@1310/1550 nm)	> 30 dB (@1310/1490 nm)
Measurement accuracy			
Uncertainty		0.5 dB	
Polarization		<0.25 dB	
Linearity		0.1 dB	
Insertion Loss		< 1.5 dB	

GENERAL SPECIFICATIONS

Parameters	Value
Fiber type / Connector interface	SM 9/125 µm / Fixed, select from LC, SC, FC (APC)
Display / Backlight function	LCD / YES
Show Results	dBm, dB, pass/fail
Display Accuracy	0.01 dB
Battery type / life	3 AA type of alkaline or NiMH type / 50 hours
External power supply	9V, 1A DC input with LED charging indicator
Auto off function	10 minutes after last key pressed
Operate / storage temperature / Relative humidity	-0 ~ +50 °C / -40 ~ +70 °C / < 95% non-condensing
Size / Weight	190 x 95 x 45 mm (7.48 x 3.74 x 1.77") / 0.54 kg (1.19 lb)

Technical data is subject to change without notice as part of our program of continuous improvements.

ORDERING INFORMATION

Description	P/N
Instrument, PON Power Meter, APC	KI 6103-APC

STANDARD ACCESSORIES

Description	Quantity
User manual	1
Carry case with strap	1
AC adapter/charger	1

AUTHORISED DEALER

KINGFISHER INTERNATIONAL
Kingfisher International Pty Ltd
30 Rocco Drive, Scoresby VIC 3179 Australia
T +61 3 9757 4100
F +61 3 9757 4193
E sales@kingfisher.com.au
W kingfisherfiber.com